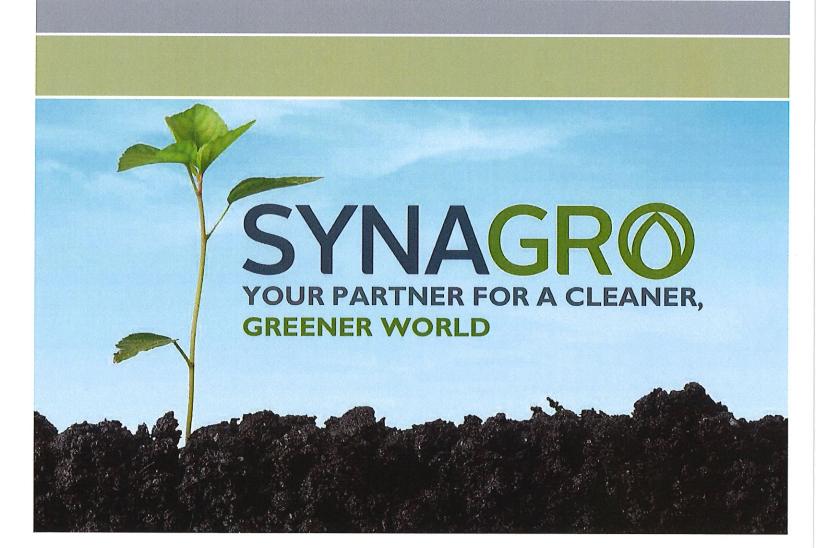
# LAND APPLICATION OF BIOSOLIDS J.M. NEWCOMB & SONS

KW 17 (FIELDS 4,9-21) KING WILLIAM COUNTY, VIRGINIA APRIL 2020





**APRIL 28, 2020** 

Mr. Neil Zahradka
Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

Dear Mr. Zahradka,

Transmitted herein for your consideration is land application site for J.M. Newcomb & Sons (designated as KW 17, fields 4,9-21), located in King William County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

Wayne T. Webb Jr.

Technical Services Manager

# **SYNAGRO**

## FIELD SUMMARY SHEET

## J.M. NEWCOMB & SONS KW17

SYNAGRO FIELD #			FSA TRACT #	FIELD TYPE	OWNER
					Ann Price Slater
17-04	40.4	38.5		Agriculture	Jane S. Sumner
					June S. Babb
					Ann Price Slater
17-09	15.5	15.5		Agriculture	Jane S. Sumner
					June S. Babb
					Ann Price Slater
17-10	68.8	68.8		Agriculture	Jane S. Sumner
					June S. Babb
					Ann Price Slater
17-11	26.5	26.5		Silviculture	Jane S. Sumner
					June S. Babb
					Ann Price Slater
17-12	94.0	93.5		Agriculture	Jane S. Sumner
					June S. Babb
					Ann Price Slater
17-13	63.2	63.0		Agriculture	Jane S. Sumner
					June S. Babb
					Ann Price Slater
17-14	15.9	15.7		Agriculture	Jane S. Sumner
					June S. Babb
					Ann Price Slater
17-15	75.1	75.0		Agriculture	Jane S. Sumner
					June S. Babb
					Ann Price Slater
17-16	17.4	17.4		Agriculture	Jane S. Sumner
					June S. Babb
17-17	76.5	75.5	10	Agriculture	Waverly L. Cutright
•					Revised 6/7/2021

17-18	33.2	33.0	Agriculture V	Vaverly L. Cutright
17-19	39.0	38.9	Agriculture V	Vaverly L. Cutright
17-20	79.1	79.0	Agriculture V	Vaverly L. Cutright
17-21	12.0	12.0	Silviculture V	Vaverly L. Cutright
×				
TOTALS:	656.6	652.3		

#### IMPORTANT INFORMATION ABOUT USING BIOSOLIDS AS A FERTILIZER

#### Biosolids Generation

Biosolids are the accumulated, treated solids separated from water during the treatment of wastewater by public and private wastewater treatment plants (Generators). The Generator is responsible for supplying biosolids that are suitable for land application under state and federal regulations.

#### Benefits of Blosolids

Biosolids provide nitrogen in a form that can be taken up by plants during their growth cycle. Biosolids also add phosphorus to the soil. If lime is added to biosolids, the biosolids will have the added benefit of a liming agent. Biosolids contain primary, secondary and micronutrients that can be used by plants. Biosolids are primarily an organic material; when added to soil, they improve water and nutrient retention, reduce erosion potential and improve soil structure.

#### The Permitting Process

Once the farm operator requests biosoilds, a Synagro representative initially evaluates the farm for truck access and field conditions. If the farm is found to be suitable and the Request for Biosoilds and the Consent for Biosoilds forms are signed, Synagro will collect soil samples and have them analyzed by an independent laboratory.

Synagro will then apply for any federal, state or local permits required for biosolids application. The permits will specifically identify the fields to which biosolids will be applied and will be issued to Synagro or the Generator.

After the permits are obtained (a process that may take several months or more) Synagro will apply blosolids, as they become available, to the fields. Availability of blosolids may vary because of weather conditions, contractual arrangements with blosolids generators and other factors. Although the company cannot guarantee blosolids application because of factors beyond its control, Synagro will use its best efforts to apply blosolids to the permitted fields.

The conditions outlined in the permit will apply to any and all biosolids applications made by Synagro. Synagro will not e responsible for biosolids application made by any other entity.

Periodic visits to the land application site(s) by federal, state and local regulatory staff and Synagro representatives may occur for the purpose of permitting the site, inspecting the site, applying biosolids, obtaining samples at the site and testing. Proper identification will be provided upon request.

#### Agronomic Considerations

Tractor-trailer units are used to deliver biosolids to the fields approved for biosolids applications. Soil compaction may occur on the travel areas used by the trucks and in areas where biosolids are unloaded for transfer to the applicator vehicle.

Since some biosolids contain lime, it is important to recognize any increase in soil pH where biosolids have been applied and exercise care in using certain herbicides. If considering the use of a sulfonylurea herbicide, particular attention should be paid to any label restrictions. High soil pH and dry weather may slow decomposition of these chemicals, resulting in carryover. For soils with low manganese levels, increased soil pH from lime addition (alone or in lime treated biosolids) may reduce manganese availability and thereby potentially reduce crop yields.

In planning a herbicide program, it should be noted that seeds may sometimes survive the biosolids treatment process — for example, tomato seeds. Also, the organic matter additions from biosolids application (organic matter tends to tie up certain herbicides) may require increased herbicide application rates. Consult your extension agent or chemical representative for a specific recommendation.

Biosoilds contain salts. Biosoilds applications alone rarely cause salt problems. However, if combined with other significant salt-increasing factors, such as drought, excessive soil compaction, saline irrigation water and salt-contain fertilizers, salts may reach levels that could negatively affect germination and growth of some crops.

While odors from biosolids applications are not usually significant, and typically less than that from livestock manure, it is possible that an odor from the decomposition of organic matter may be noticed. It this occurs, it generally disappears in a short time.

Since biosolids provide nitrogen that will be released slowly throughout the growing season with diminishing carryover in subsequent years, it is important to reduce the use of nitrogen and other fertilizers to appropriate levels.

## VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS					
A. This land application agreement is made on 4/23/20 between ANN PRICE SLATER & JANE S SUMNER JUNE S BABB referred to here as "Landowner", and Synagro Central, LLC referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.					
Landowner: The Landowner is the owner agricultural, silvicultural or redocumentation identifying ow	clamation site	s identified belo	located in <u>KING WILL</u> w in Table 1 and iden	<u>IAM</u> , Virgitified on	ginia, which includes the the tax map(s) with county
Table 1.: Parcels aut	horized to rec	eive biosolids, w	vater treatment residu	als or oth	ner industrial sludges
<u>Tax Parcel ID</u>	<u>Tax P</u>	Parcel ID	Tax Parcel ID	)	Tax Parcel ID
25-4					
			, , , , , , , , , , , , , , , , , , ,		
			425 E		
☐ Additional parcels containing Lar					
			the properties identific ners of the properties		
than the date of the	t date of bioso or transferee property transf	olids application, of the applicable fer; and	the Landowner shall:	: rop mana	olids have been applied
The Landowner has no other notify the Permittee immedia application or any part of this	tely if conditio	ns change such	that the fields are no	longer a	vailable to the Permittee for
The Landowner hereby gran- agricultural sites identified ak inspections on the land ident purpose of determining comp	oove and in Ex ified above, be	khibit A. The Lar efore, during or	idowner also grants p after land application	ermissio of permit	n for DEQ staff to conduct tted residuals for the
Class B biosolids Water	treatment residu □ No	uals Food	I processing waste es □ No	Other Yes	industrial sludges □ No
Printed name: ANN PRICE SLATER & JANE S Mailing Address / 7/3 Belleve Landowner Signature  SUMNER & JUNES BABB  Ave Apt. C826  By: Jane S. Summer Richmend VA 7327  Title* Owner Phone No. 571-274-8638  Final Phone No. 571-274-8638					
*[ I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.  * I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.					
Permittee:  Superco Control LLC, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the mariner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.  The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and					
specifically prior to any particular	r application to		land. Notice shall includ 1681 Tappahannock		rce of residuals to be applied.  - Authorized Representative
Wayne T. Webb Jr.		Blvd, Tappahani		Signature	
Title Technical Services Manager		Phone No. 443-21	70	1/2	in o Th 200 L

Page 1 of 2

Permittee: SYNAGRO CENTRAL LLC	County or City: KING WILLIAM
Landowner: ANN PRICE SLATER & JANE S SUMN	VER of June 5. Babb

#### Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

#### 2. Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

#### 3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

#### 4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days.
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature Communication

4/23/2020 Date

Rev 6/11/2018b Page 2 of 2

## VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLIC	PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS				
A. This land application agreement is made on 4/24/2020 between ANN PRICE SLATER & JANE S SUMNER C/O JUNE S BABB referred to here as "Landowner", and Synagro Central, LLC , referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.					
Landowner: The Landowner is the owner of record of the real property located in KING WILLIAM, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.					
Table 1.: Parcels aut	horized to rece	eive biosolids, w	vater treatment residu	als or oth	er industrial sludges
Tax Parcel ID	Tax Pa	arcel ID	Tax Parcel ID	)	Tax Parcel ID
25-4					
☐ Additional parcels containing Lar	0.50.5				
Check one: ☐ The La	ndowner is the ndowner is one	e sole owner of the sole owner	the properties identifien ners of the properties	identified	herein.
<ul> <li>In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall: <ol> <li>Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and</li> <li>Notify the Permittee of the sale within two weeks following property transfer.</li> </ol> </li> <li>The Landowner has no other agreements for land application on the fields identified herein. The Landowner will</li> </ul>					
notify the Permittee immedia application or any part of this	tely if condition	ns change such	that the fields are no	longer av	ailable to the Permittee for
The Landowner hereby gran- agricultural sites identified at inspections on the land ident purpose of determining comp	oove and in Exl ified above, be	hibit A. The Lar fore, during or	ndowner also grants p after land application	ermissior of permitt	n for DEQ staff to conduct ted residuals for the
Class B biosolids Water  ☑ Yes ☐ No ☑ Yes	treatment residu □ No	Als Food 图 Ye	I processing waste es □ No	<u>Other i</u> ⊠ Yes	<u>ndustrial sludges</u> □ No
Printed name: ANN PRICE SLATER & JANE S SUMNER C/O JUNE S BABB  By: June S Babb  Richmond VA 23227  Title* Quner  Phone No. 804-513-2882					
* I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.  * I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.					
Permittee:  Super Conta DC, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.  The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and					
The Permittee agrees to notify the specifically prior to any particular	ne Landowner o ir application to t	the Landowner's	s designee of the propol land. Notice shall includ	e the sour	ce of residuals to be applied.
Printed name Wayne T. Webb Jr.		Mailing Address: 1 Blvd, Tappahani	1681 Tappahannock nock, VA 22560	Signaturo	Authorized Representative
Title Technical Services Manager		Phone No. 443-21	70	$ \mathcal{M} $	symet. Wells

Rev 6/11/2018b Page 1 of 2

#### VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: SYNAGRO CENTRAL LLC	County or City: KING WILLIAM
Landowner: ANN PRICE SLATER & JANE S SUMN	ER

#### Landowner Site Management Requirements:

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I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field
as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land
application at that site is completed.

#### 2. Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

#### 3. Crop Restrictions:

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- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

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- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

4/24/20 Date

Page 2 of 2

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Landowner: The Landowner is the owner agricultural, silvicultural or redocumentation identifying ow	clamation site	s identified below	located in <u>KING WILL</u> w in Table 1 and iden	<u>IAM</u> , Vir tified on	ginia, which includes the the tax map(s) with county
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Tax Parcel ID	<u>Tax P</u>	arcel ID	<u>Tax Parcel ID</u>	<u>)</u>	Tax Parcel ID
25-4			,		
	-				
☐ Additional parcels containing Lan					
Check one: ☐ The Lar ☐ The Lar	ndowner is the	e sole owner of t	he properties identifie	ed herein identifie	d herein
<ul> <li>☑ The Landowner is one of multiple owners of the properties identified herein.</li> <li>In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall: <ol> <li>Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and</li> <li>Notify the Permittee of the sale within two weeks following property transfer.</li> </ol> </li> <li>The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for</li> </ul>					
application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.  The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.  Class B biosolids Water treatment residuals Food processing waste 又Yes □ No 文Yes □ No					
Printed name: ANN PRICE SLATER & JANES SUMNER C/O JUNES BABB  By: Ann P. Slater  Richmond VA 23227  Title* Character  Phone No. 804-499-0363					
** I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.  ** I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.					
Permittee:  Super Central LLC, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.  The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.					
Printed name	application to		land. Notice snall includ 1681 Tappahannock		- Authorized Representative
Wayne T. Webb Jr.		Blvd, Tappahanr	5353	Signature	
Title Technical Services Manager		Phone No. 443-21	70	1/1	CHANT- 12 DODA

Page 1 of 2

Permittee: SYNAGRO CENTRAL LLC	County or City: KING WILLIAM
Landowner: <u>ANN PRICE SLATER &amp; JANE S SUM</u>	NER & June S. Bahb

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#### Crop Restrictions:

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- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

4/24/2020 Date

Page 2 of 2

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A. This land application agreement is made on				
Landowner: The Landowner is the owner agricultural, silvicultural or redocumentation identifying owners.	clamation sites identified belo	located in <u>KING WILLIAN</u> w in Table 1 and identifie	<u>//</u> . Virginia, which includes the d on the tax map(s) with county	
Table 1.: Parcels aut	horized to receive biosolids, w	vater treatment residuals	or other industrial sludges	
Tax Parcel ID	Tax Parcel ID	<u>Tax Parcel ID</u>	Tax Parcel ID	
12-2				
5-15				
13-6				
☐ Additional parcels containing Lar	nd Application Sites are identified on S	Supplement A (check if applicab	ile)	
	ndowner is the sole owner of t			
□ The Landowner is one of multiple owners of the properties identified herein.  In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:  1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and  2. Notify the Permittee of the sale within two weeks following property transfer.				
The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.				
The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.    Class B biosolids				
Printed name WAVERLY I CUTRIGHT  By: Y/AVER Ly L. Cutright  Title* OWNER  Mailing Address 442 Smokey Rd  Ay Lett Va 23009 Phone No. 804-5139187  Landowner Signature Waverly L. Livinght				
I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.  * I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.				
Permittee: <u>Synagro Central</u> , μα , the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management				

plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name Wayne T. Webb Jr.	Mailing Address: 1681 Tappahannock Blvd, Tappahannock, VA 22560	Permittee- Authorized Representative Signature  Oum T- Well A
Title Technical Services Manager	Phone No. 443-2170	Mayner. Masso

Page 1 of 2 Rev 6/11/2018b

Permittee: SYNAGRO CENTRAL LLC	County or City: KING WILLIAM
Landowner: <u>WAVERLY L CUTRIGHT</u>	

#### Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field
as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land
application at that site is completed.

#### 2. Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

#### 3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

#### 4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land
  for three years following the application of biosolids or industrial residuals which bear cadmium equal to or
  exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Date

#### TAX ID LANDOWNER IDENTIFICATION SHEET

Landowner	Field Number	Tax ID
Ann Price Slater		
Jane S. Sumner	17-04	25-4
June S. Babb		
Ann Price Slater		
Jane S. Sumner	17-09	25-4
June S. Babb		
Ann Price Slater		
Jane S. Sumner	17-10	25-4
June S. Babb		
Ann Price Slater		
Jane S. Sumner	17-11	25-4
June S. Babb		
Ann Price Slater		
Jane S. Sumner	17-12	25-4
June S. Babb		
Ann Price Slater		
Jane S. Sumner	17-13	25-4
June S. Babb		
Ann Price Slater		
Jane S. Sumner	17-14	25-4
June S. Babb		
Ann Price Slater		
Jane S. Sumner	17-15	25-4
June S. Babb		
Ann Price Slater		
Jane S. Sumner	17-16	25-4
June S. Babb		
Waverly L. Cutright	17-17	13-6
Waverly L. Cutright	17-18	13-6
	17-19	12-2
Waverly L. Cutright	11-18	5-15
Movement Cutrisht	17.20	12-2
Waverly L. Cutright	17-20	5-15
Waverly L. Cutright	17-21	5-15

Field Number	Latitude (North)	Longitude (West)	
17-04	37.732°	-77.282°	
17-09	37.726°	-77.290°	
17-10	37.723°	-77.291°	
17-11	37.781°	-77.291°	
17-12	37.732°	-77.291°	
17-13	37.728°	-77.287°	
17-14	37.730°	-77.284°	
17-15	37.736°	-77.287°	
17-16	37.737°	-77.281°	
17-17	37.817°	-77.201°	
17-18	37.818°	-77.197°	
17-19	37.831°	-77.249°	
17-20	37.833°	-77.246°	
17-21	37.836°	-77.244°	

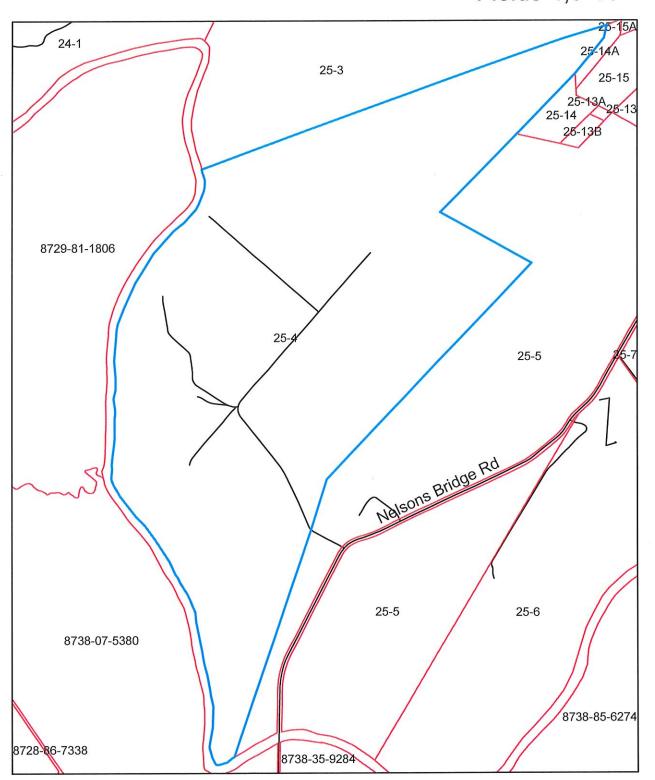
#### Haul Route:

The Location maps in conjunction with the above latitude and longitude coordinates are a route planning tool meant to be a guide to indicate suggested haul routes for various preferences: to include but not limited to all federal, state, and local granted STAA access routes.

<sup>\*</sup>Latitude and Longitude are a random point determined by ArcView program



J.M. Newcomb & Sons KW 17 Fields 4,9-16





1 inch = 1,250 feet

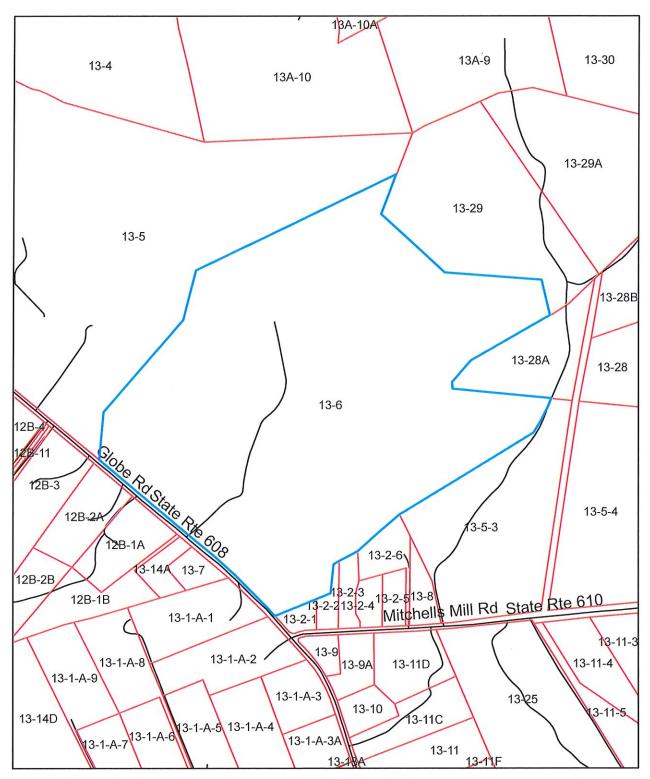
TAX MAP

1:15,000

Disclaimer: Information shown on these maps are derived from public records that are constantly undergoing change and do not replace a site survey, and is not warrented for content or accuracy. The County does not guarantee the positional or thematic accuracy of the GIS data. The GIS data or cartographic digital files are not legal representation of any of the features in which it depicts, and disclaims any assumption of the legal status of which it represents.



## J.M. Newcomb & Sons KW 17 Fields 17-18





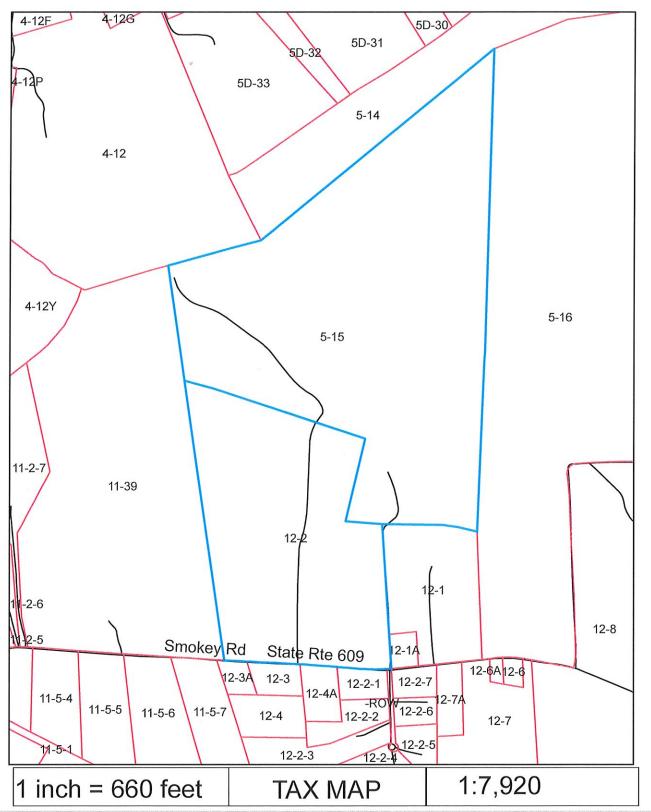
1 inch = 660 feet TAX MAP

1:7,920

Disclaimer: Information shown on these maps are derived from public records that are constantly undergoing change and do not replace a site survey, and is not warrented for content or accuracy. The County does not guarantee the positional or thematic accuracy of the GIS data. The GIS data or cartographic digital files are not legal representation of any of the features in which it depicts, and disclaims any assumption of the legal status of which it represents.

# **SYNAGRO**

## J.M. Newcomb & Sons KW17 Fields 19-21



Disclaimer: Information shown on these maps are derived from public records that are constantly undergoing change and do not replace a site survey, and is not warrented for content or accuracy. The County does not guarantee the positional or thematic accuracy of the GIS data. The GIS data or cartographic digital files are not legal representation of any of the features in which it depicts, and disclaims any assumption of the legal status of which it represents.

#### **Farm Summary Report**

Plan: New Plan Spring, 2020 - Spring, 2030

Farm Name: KW17

Location: King William Specialist: Wayne T. Webb Jr.

N-based Acres: 640.3 P-based Acres: 0.0

Tract Name: KW17

FSA Number: 0

Location: King William

Field Name:

Total Acres: 40.40 Usable Acres: 38.50

FSA Number: 0

Tract: KW17

Location: King William

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
9 1A Altavista
47 27B STATE1
10 29D Tarboro
33 30A Tomotley

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

Page 1 of 13 11/30/2020

Total Acres:

15.50 Usable Acres: 15.50

FSA Number: 0 Tract:

KW17

Location:

King William

Slope Class:

Hydrologic Group:

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

PΗ DATE

Р

Κ

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

SOIL SERIES

С

34

30A

2

Tomotley 32A Wehadkee

64

27A

STATE1

Field Warnings:

Crop Rotation:

PLANTED

YIELD

**CROP NAME** 

11/30/2020 Page 2 of 13

Total Acres: 68.80 Usable Acres: 68.80

FSA Number: 0 Tract: KW17

Location: King William

Slope Class: A Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
22 1A Altavista
12 23A Riverview
55 27A STATE1
11 30A Tomotley

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

Page 3 of 13 11/30/2020

Total Acres: 26.50 Usable Acres: 26.50

FSA Number: 0 Tract: KW17

Location: King William

Slope Class: A Hydrologic Group: A

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

72 23A Riverview 28 32A Wehadkee

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

Page 4 of 13 11/30/2020

12

Total Acres:

94.00 Usable Acres: 93.50

FSA Number: 0 Tract:

Α

KW17

Location:

King William

Slope Class:

Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

Ρ

Κ

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

SOIL SERIES

63 21

1A

Altavista STATE1 27A

16

30A Tomotley

Field Warnings:

Crop Rotation:

PLANTED

YIELD

**CROP NAME** 

Total Acres:

63.20 Usable Acres: 63.00

FSA Number: 0 Tract:

KW17

Location:

King William

Slope Class:

Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PH

Р

Κ

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

SOIL SERIES

70 9

1A

Altavista 26B Slagle

3

27B

STĂTE1

17

30A

Tomotley

Field Warnings:

Crop Rotation:

PLANTED

YIELD

**CROP NAME** 

Total Acres:

15.90 Usable Acres: 15.70

FSA Number: 0 Tract:

KW17

Location:

King William

Slope Class:

Hydrologic Group:

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

Ρ

В

K

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

47

25A Seabrook

53

30A Tomotley

Field Warnings:

Crop Rotation:

PLANTED

YIELD

**CROP NAME** 

SOIL SERIES

11/30/2020 Page 7 of 13

Total Acres:

75.10 Usable Acres: 75.00

FSA Number: 0 Tract:

KW17

Location:

King William

Slope Class:

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

Р

Κ

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

SOIL SERIES

27 21

1A

Altavista 6A Bojac1

9

17A

Munden

43

30A

Tomotley

Field Warnings:

Crop Rotation:

PLANTED

YIELD

**CROP NAME** 

11/30/2020 Page 8 of 13

Total Acres: 17.40 Usable Acres: 17.40

FSA Number: 0 Tract: KW17

Location: King William

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

53 27B STATE1 32 29D Tarboro 15 30A Tomotley

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED YIELD CROP NAME

Page 9 of 13 11/30/2020

Total Acres:

76.50 Usable Acres: 75.50

FSA Number: 0 Tract:

KW17

В

Location:

King William

Slope Class:

Hydrologic Group:

C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

Р

PH

Κ

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

SOIL SERIES

3

12A

22D

Eunola Nevarc Remlik

12 85

28B

Rumford Suffolk

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED

YIELD

**CROP NAME** 

Total Acres: 33.20 Usable Acres: 33.00

FSA Number: 0 Tract: KW17

Location: King William

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

5 12A Eunola

5622D Nevarc Remlik3928B Rumford Suffolk

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED YIELD CROP NAME

Page 11 of 13 11/30/2020

Total Acres: 39.00 Usable Acres: 38.90

FSA Number: 0 Tract: KW17

Location: King William

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab [NO TEST]

Soils:

SOIL SERIES PERCENT SYMBOL 3 9A Daleville 25 12A Eunola Kempsville 49 13B Nevarc Remlik 10 22F 14 26A Slagle

Field Warnings:

Crop Rotation:

PLANTED YIELD CROP NAME

Page 12 of 13 11/30/2020

Total Acres:

79.10 Usable Acres: 79.00

FSA Number: 0 Tract:

KW17

С

Location:

King William

Slope Class:

Hydrologic Group:

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

Р

Κ

Lab

[NO TEST]

Soils:

PERCENT

SYMBOL

SOIL SERIES

С

7

12A Eunola

69

Kempsville 13B

13

22F

Nevarc Remlik

11

Slagle 26A

Field Warnings:

Crop Rotation:

PLANTED YIELD

**CROP NAME** 

11/30/2020 Page 13 of 13

Total Acres: 12.00 Usable Acres: 12.00

FSA Number: 0 Tract: KW17

Location: King William

Slope Class: D Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

[NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES

69 13B Kempsville 31 22F Nevarc Remlik

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with perent slope in excess of 15%

Crop Rotation:

PLANTED YIELD CROP NAME

## **ENVIRONMENTALLY SENSITIVE AREAS**

Field	Reason for Sensitive Area
17-04	High Leaching Potential (Map Unit 29D - 10%) High Water Table (Map Unit 30A- 33%)
17-09	High Water Table (Map Unit 30A - 36%) Flooded Soils (Map Unit 32A - 2%)
17-10	Flooded Soils (Map Unit 23A - 12%) High Water Table (Map Unit 30A - 11%)
17-11	Flooded Soils (Map Unit 23A,32A - 100%)
17-12	High Water Table (Map Unit 30A- 16%)
17-13	High Water Table (Map Unit 30A- 17%)
17-14	High Water Table (Map Unit 30A- 53%)
17-15	High Leaching Potential (Map Unit 6A - 21%) High Water Table (Map Unit 30A- 43%)
17-16	High Leaching Potential (Map Unit 29D - 32%) High Water Table (Map Unit 30A- 15%)
17-17	High Leaching Potential (Map Unit 22D - 12%)
17-18	High Leaching Potential (Map Unit 22D - 56%)
17-19	High Water Table (Map Unit 9A- 3%) High Leaching Potential (Map Unit 22F - 10%)
17-20	High Leaching Potential (Map Unit 22F - 13%)
17-21	High Leaching Potential (Map Unit 22F - 31%)

Synagro Central, LLC

## King William County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
3A	Bibb/Kinston	Nov-June	Nov-June	Drainage
4A	Bohicket	Nov-June	Nov-June	
5A	Bojac	Jan-Dec		Leaching
6A, 6B	Bojac			Leaching
7A	Catpoint			Leaching
8A	Conetoe			Leaching
9A	Daleville	Nov-May		
14A	Kenansville			Leaching
15A	Lanexa	Jan-Dec	Jan-Dec	Drainage
16A	Mattan	Jan-Dec	Jan-Dec	Drainage
18A	Myatt	Nov-April		
20A	Osier	Nov-March		Drainage
22D, 22F	Remilk/Nevarc			Leaching
23A	Riverview		Dec-March	
24A	Roanoke	Nov-May		
29B, 29D, 29F	Tarboro			Leaching
30A	Tomotley	Nov-April		
32A	Wehadkee	Nov-May	Nov-May	

# Map Legend



## House/Dwelling with a well

- 200' buffer-dwelling (with conditions for reduction);
- 100' buffer-well



## Rock Outcrop

- 25' buffer



Limestone Outcrop / Closed Sinkholes

- 50' buffer



## Well/Springs/Open Sinkholes

- 100' buffer



### Lake/Pond

- 35' w/vegetative buffer; 100' without vegetative buffer



Slope which exceeds 15%



"PAS" - Publicly Accessible Site

- 200' buffer



## Stream/River

- 35' w/vegetative buffer; 100' without vegetative buffer



## Agricultural/Drainage Ditch

- 10' buffer



Field Boundary



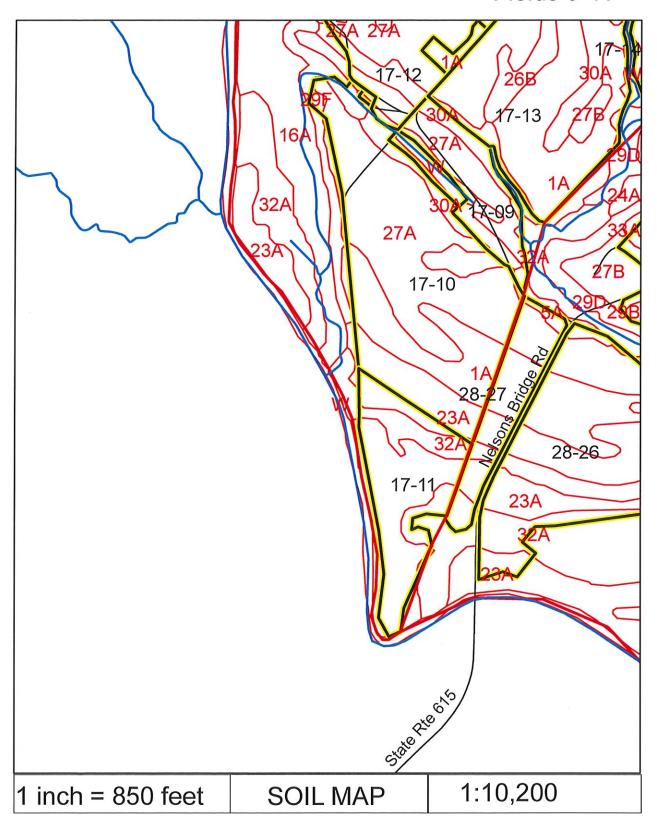
## **Property Line**

- 100' buffer unless waiver issued



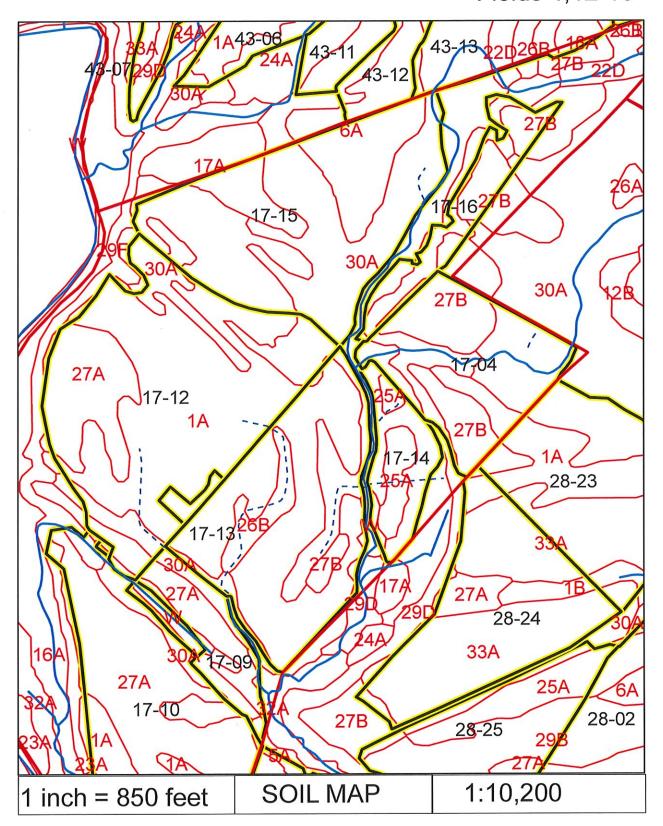
# **SYNAGRO**

J.M. Newcomb & Sons KW17 Fields 9-11



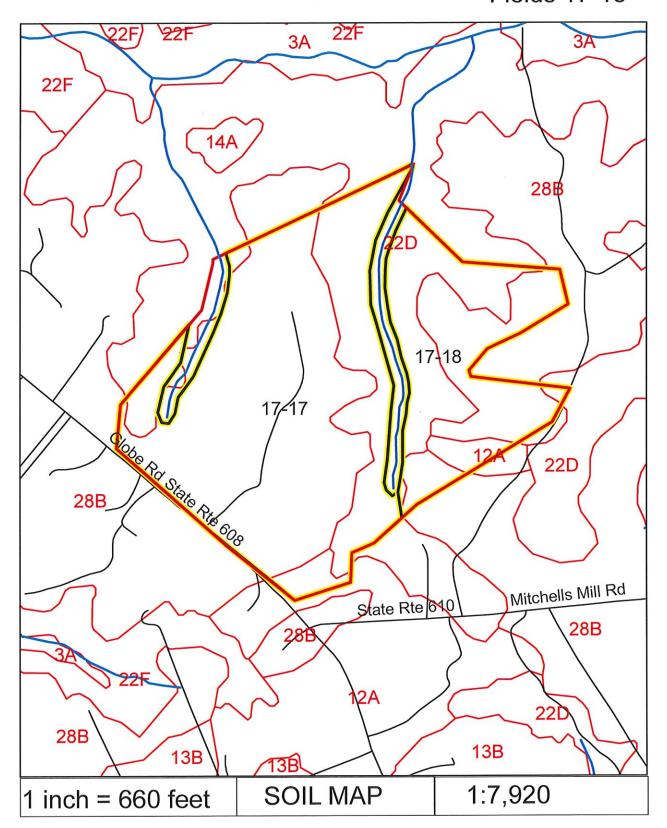


J.M. Newcomb & Sons KW17 Fields 4,12-16



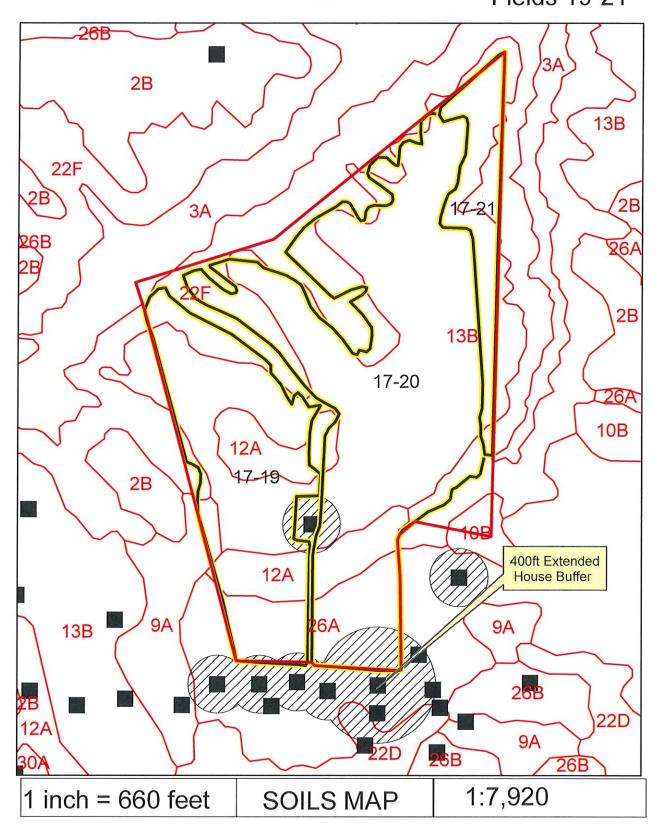


J.M. Newcomb & Sons KW17 Fields 17-18

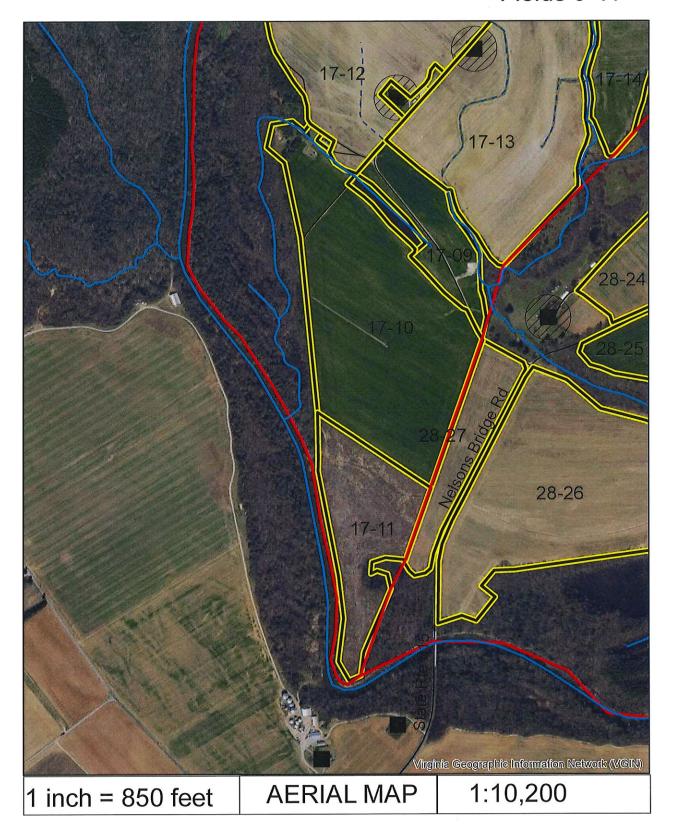




J.M Newcomb & Sons KW17 Fields 19-21



#### J.M. Newcomb & Sons KW17 Fields 9-11







J.M. Newcomb & Sons KW17 Fields 4,12-16







#### J.M Newcomb & Sons KW 17 Fields 17,18





1 inch = 660 feet

**AERIAL MAP** 

1:7,920

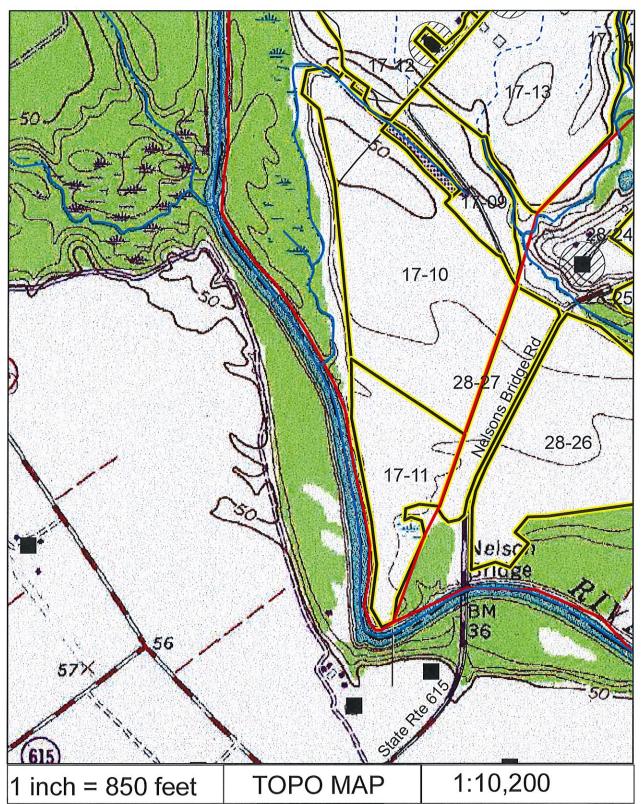
Revised 8/25/2021

#### J.M Newcomb & Sons KW17 Fields 19-21





J.M. Newcomb & Sons KW17 Fields 9-11





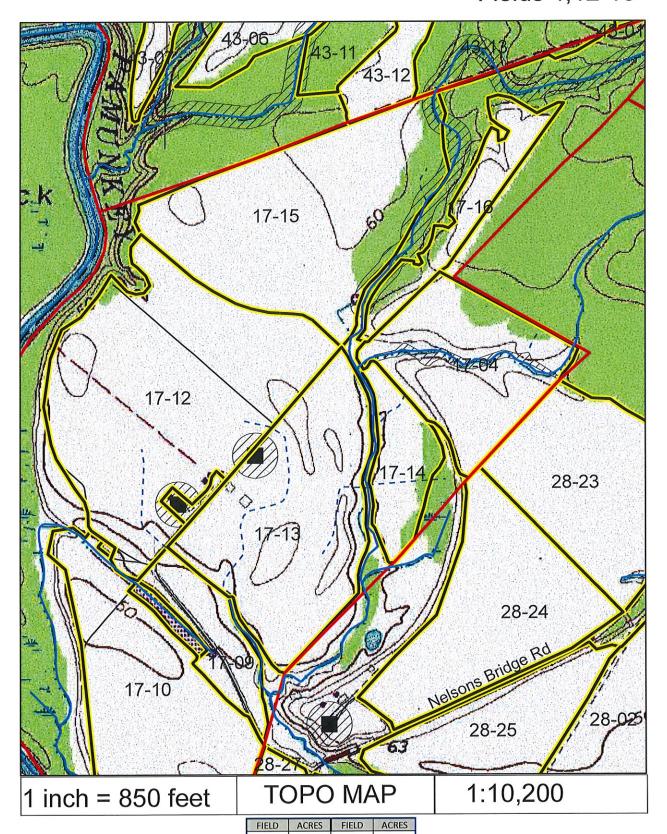
 FIELD
 ACRES

 17-09
 15.5

 17-10
 68.8

 17-11
 26.5

J.M. Newcomb & Sons KW17 Fields 4,12-16



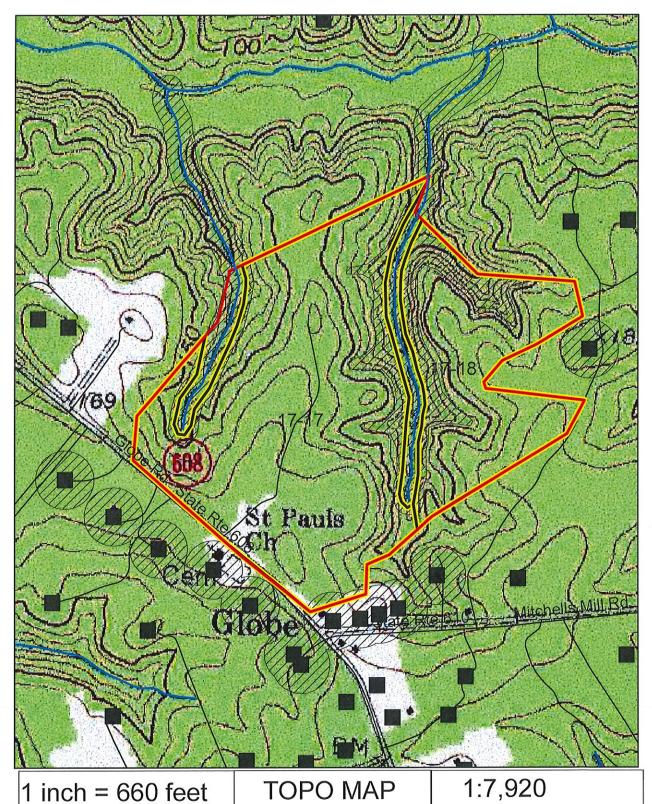
17-15 17-16

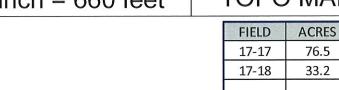
17-13



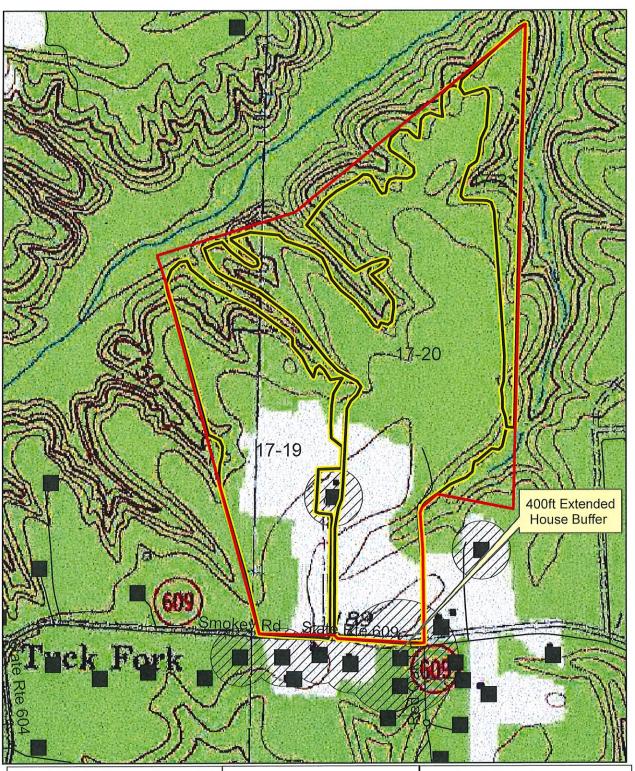


J.M. Newcomb & Sons KW17 Fields 17-18





J.M. Newcomb & Sons KW17 Fields 19-21





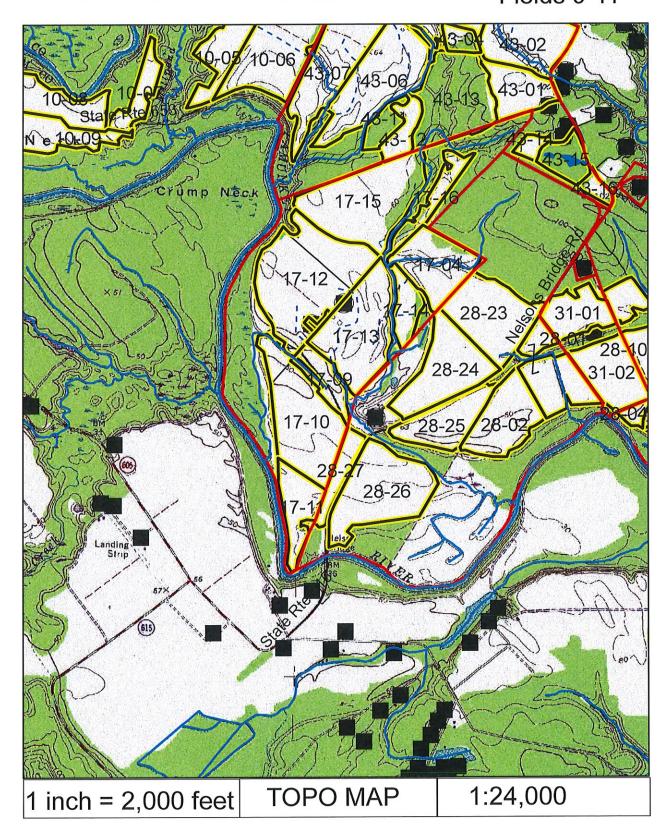
1 inch = 660 feet

TOPO MAP

1:7,920

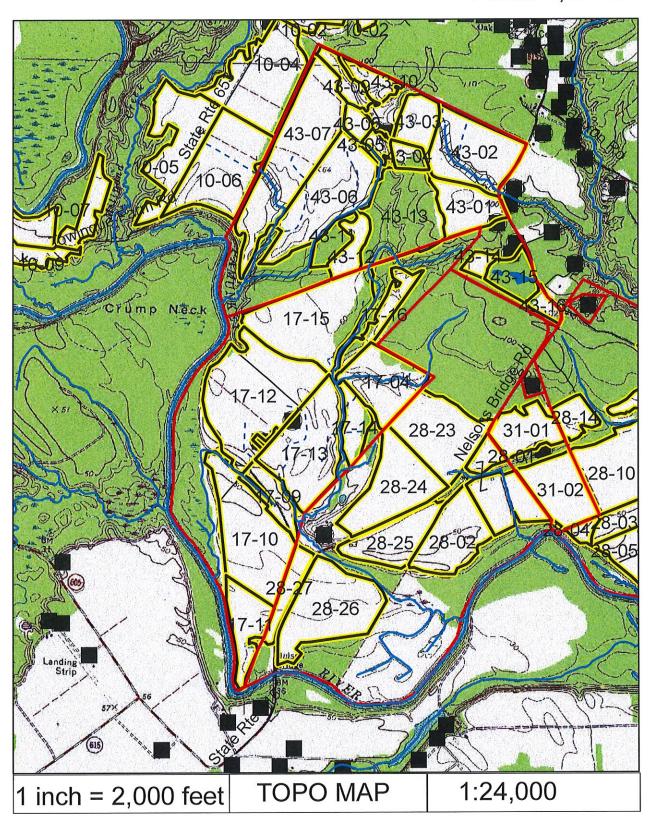
FIELD	ACRES
17-19	39.0
17-20	79.1
17-21	12.0

J.M. Newcomb & Sons KW17 Fields 9-11





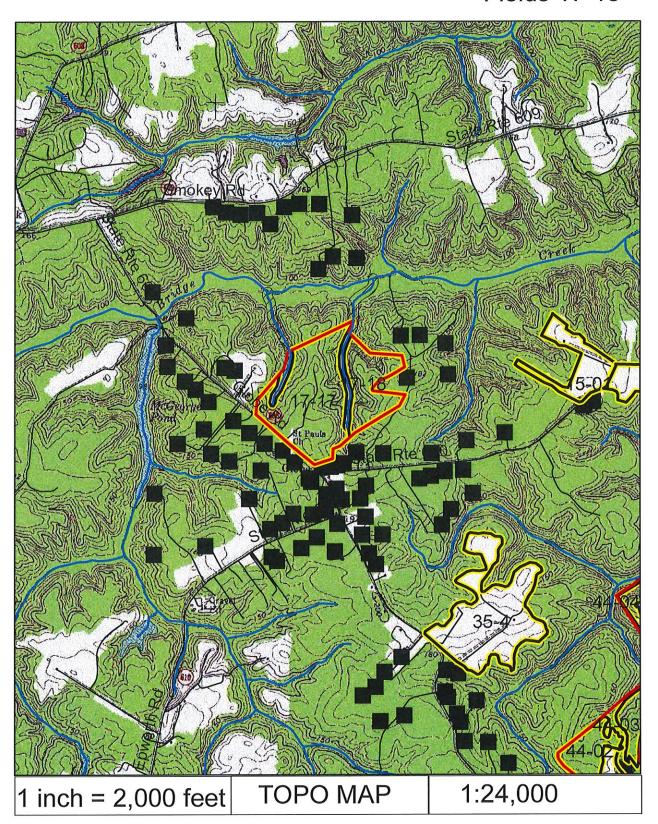
J.M. Newcomb & Sons KW17 Fields 4,12-16







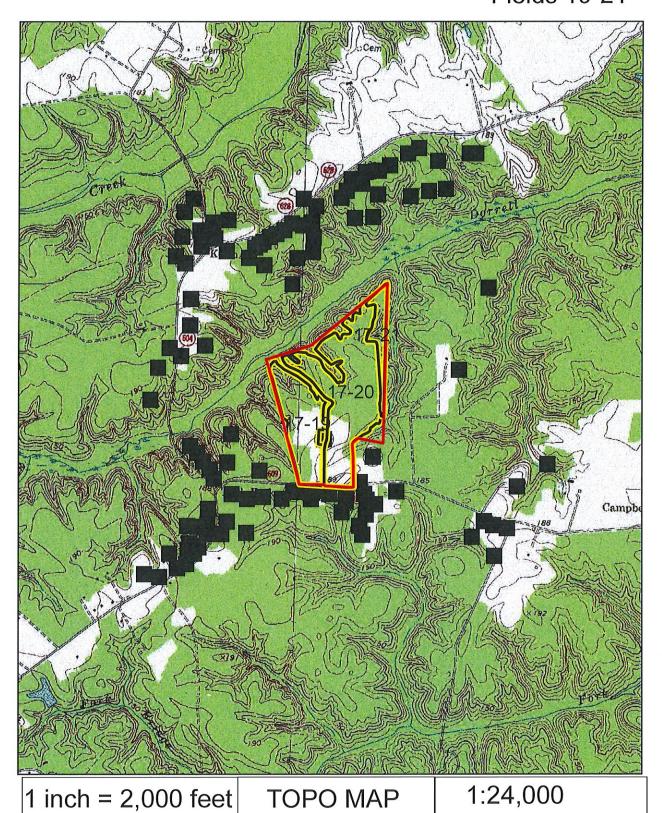
#### J.M. Newcomb & Sons KW17 Fields 17-18





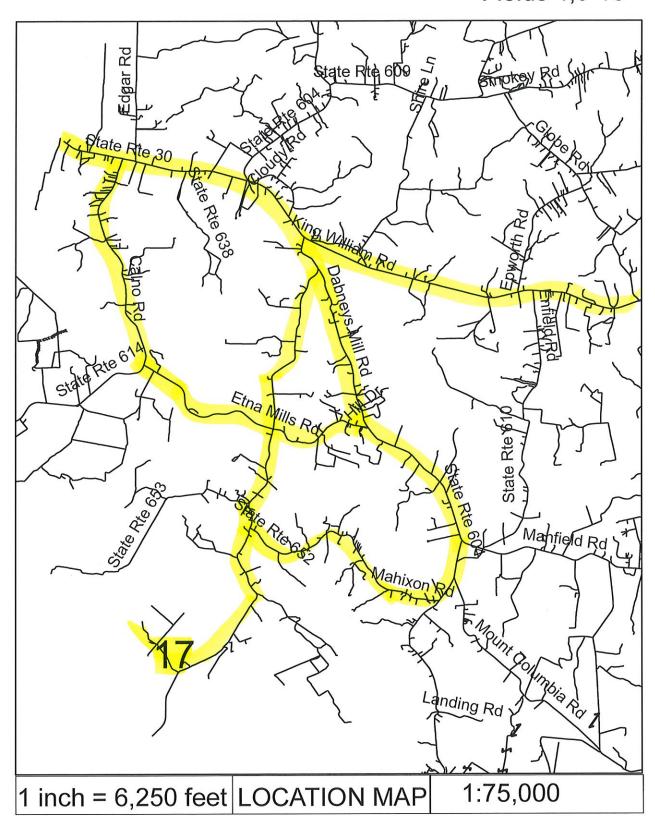


#### J.M Newcomb & Sons KW17 Fields 19-21



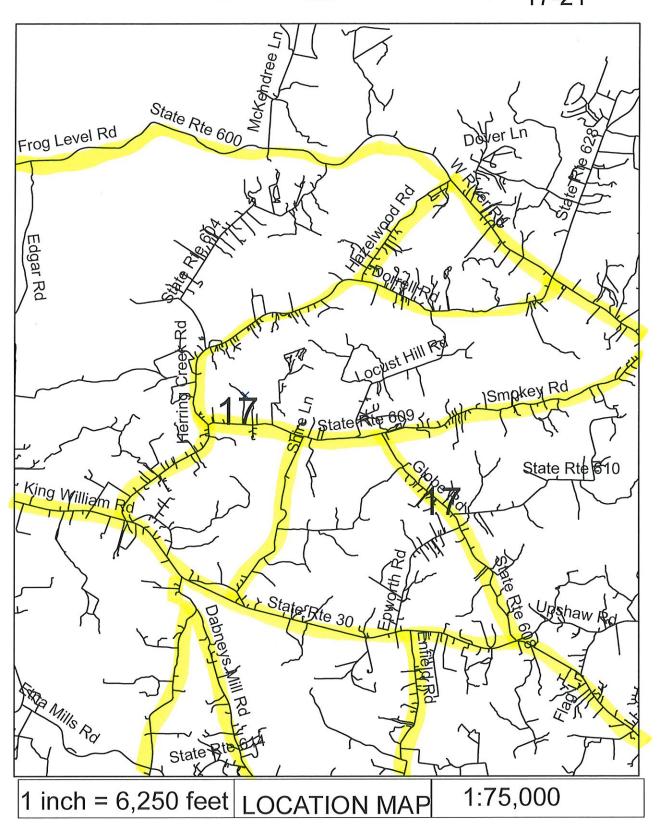


J.M. Newcomb & Sons KW17 Fields 4,9-16

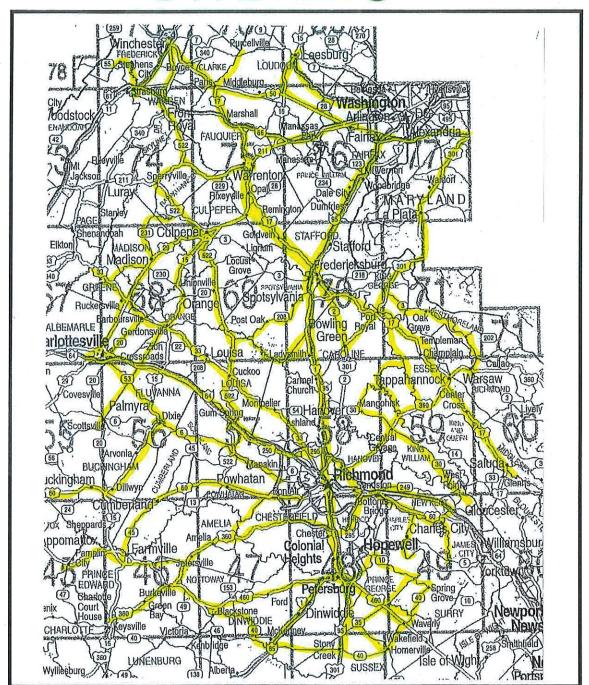




J.M. Newcomb & Sons KW17 17-21









#### HAUL ROUTE MAP

This map highlights all major routes from the approved generators to the locations of our permitted land. The highlighted routes on our Location Map will pinpoint routes closer to the site.